

LISTING OF THE CLAIMS:

1. (Currently Amended) A method for driving a liquid crystal display device having a demultiplexer unit connected between a data driving circuit and a plurality of data lines on a liquid crystal panel, the demultiplexer unit distributing color data signals from any one of the output terminals of the data driving circuit to the plurality of the data lines on the liquid crystal panel, the method comprising;

classifying color data signal to be applied to the demultiplexer unit from the data driver circuit by colors;

consecutively providing the color data signals having a same color to the demultiplexer unit by the driver; and

consecutively providing the color data signals having a same color to non-adjacent data lines by the demultiplexer unit before applying a different color signal, wherein ~~the consecutively provided color data signals are applied to non-adjacent data line to have a substantially same holding period.~~ the data driver circuit consecutively provides the same color data signals to the demultiplexer unit before providing different color data signals to the demultiplexer unit to minimize a voltage difference between the same color data signals charged in picture elements.

2. (Original) The method of claim 1, wherein the color data signals are applied to the data lines on the liquid crystal panel in a combination of sequences of color data signals of red, green and blues.

3. (Original) The method of claim 2, wherein the color data signals are applied to the data lines on the liquid crystal panel in a sequence of red, green and blue signals.

4. (Original) The method of claim 2, wherein the color data signals are applied to the data lines on the liquid crystal panel in a sequence of green, blue and red signals.

5. (Original) The method of claim 2, wherein the color data signals are applied to the data lines on the liquid crystal panel in a sequence of blue, red and green signals.

6. (Original) The method of claim 1, wherein the classifying step includes a step includes arranging the color data signals having the same color according to a sequence of dot inversion system where each contiguous pixel of the liquid crystal panel has a reverse polarity.

7. (Original) The method of claim 1, wherein the demultiplexer unit includes a plurality of demultiplexers.

8. (Original) The method of claim 7, wherein each of the plurality of the demultiplexers is connected to at least five data lines of the liquid crystal panel.

9. (Original) The method of claim 7, wherein each of the plurality of the demultiplexers is connected to an odd number of data lines.

10. (Original) The method of claim 7, wherein each of the plurality of the demultiplexers is connected to data lines in a multiple of six.

11. (Currently Amended) A liquid crystal display device comprising a data driving unit, a liquid crystal panel having a plurality of data lines and a demultiplexer unit connected between a data driving circuit and the liquid crystal panel and distributing color data signals from any one of the output terminals of the data driving circuit to the plurality of the data lines on the liquid crystal panel,

wherein the data driver consecutively provides the color data signals having a same color to and the demultiplexer unit consecutively providing the color data signals having a same color to ~~contiguous~~ non-adjacent data lines before applying a different color signal,

~~wherein the consecutively provided color data signals are applied to non-adjacent data line to have a substantially same holding period~~ the data driver circuit consecutively provides the same color data signals to the demultiplexer unit before providing different color data signals to the demultiplexer unit to minimize a voltage difference between the same color data signals charged in picture elements.

12. (Previously Presented) The liquid crystal display device of claim 11, wherein the color signal are applied to the data line in a combination of sequences of color data signals of red, green and blues.

13. (Original) The liquid crystal display device of claim 11, wherein the color data signals are applied to the data lines on the liquid crystal panel in a sequence of red, green and blue signals.

14. (Original) The liquid crystal display device of claim 12, wherein the color data signals are applied to the data lines on the liquid crystal panel in a sequence of green, blue and red signals.

15. (Original) The liquid crystal display device of claim 12, wherein the color data signals are applied to the data lines on the liquid crystal panel in a sequence of blue, red and green signals.

16. (Previously Presented) The liquid crystal display device of claim 11, wherein the data signals are applied to the demultiplexer unit having a same color according to a sequence of dot inversion system where each contiguous pixel of the liquid crystal panel has a reverse polarity.

17. (Previously Presented) The liquid crystal display device of claim 11, wherein the demultiplexer unit includes a plurality of demultiplexers.

18. (Original) The liquid crystal display device of claim 17, wherein each of the plurality of demultiplexers is connected to at least 5 data lines on the liquid crystal panel.

19. (Original) The liquid crystal display device of claim 17, wherein each of the plurality of the demultiplexers is connected to the data lines of odd number.

20. (Original) The liquid crystal display device of claim 17, wherein each of the plurality of the demultiplexers is connected to a number of data lines in multiple of six.